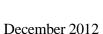
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LEGISLATORS RETIREMENT FUND
MINNESOTA STATE RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JULY 1, 2012



Minnesota State Retirement System Legislators Retirement Fund St. Paul, Minnesota

Dear Board of Directors:

The results of the July 1, 2012 annual actuarial valuation of the Legislators Retirement Fund are presented in this report. This report was prepared at the request of the Board and is intended for use by the Retirement Fund and those designated or approved by the Board. This report may be provided to parties other than the Fund only in its entirety. GRS is not responsible for the consequences of any unauthorized use of this report.

The purpose of the valuation is to measure the Fund's funding progress, to determine the required contribution rate for the fiscal year beginning July 1, 2012, and to determine the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 25. Note that we have not attempted to quantify the impact of GASB Statements No. 67 and 68 in this report.

The valuation was based upon information furnished by the Minnesota State Retirement System (MSRS), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by MSRS.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the Legislative Commission on Pensions and Retirement (LCPR), and the Board of Directors. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis of this report. MSRS is solely responsible for communicating to GRS any changes required thereto.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

This report should not be relied on for any purpose other than the purpose described in the primary communication. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

Board of Directors December 2012 Page 2

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

The undersigned actuaries are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. In addition, Mr. Murphy meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief the information contained in this report is accurate and fairly presents the actuarial position of the Legislators Retirement Fund as of the valuation date and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

We are available to answer any questions or provide further details.

Respectfully submitted,

Brian B. Murphy, FSA, EA, MAAA

Bonita J. Wurst Bonita J. Wurst, ASA, EA, MAAA

BBM/BJW:sc

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Contributions

The following table summarizes important contribution information as described in the Development of Costs section.

	Actuarial Va	luation as of
Contributions (dollars in thousands)	July 1, 2012	July 1, 2011
Statutory Contributions* - Chapter 3A	\$ 123	\$ 148
Required Contributions - Chapter 356	\$ 18,331	\$ 8,420
Sufficiency / (Deficiency)	\$ (18,208)	\$ (8,272)

^{*} Member contributions equal to 9% of payroll.

The Chapter 356 Required Contribution shown above represents the estimated annual contribution amount that would be needed for this plan to attain 100% funding by July 1, 2026 (2021 for the 2011 results), based upon the prescribed assumptions. The Required Contribution includes not only the expected benefit payments for the year, but also amounts intended to pre-fund future benefit payments. Actual contributions have been less than the Required Contribution amount since 1999. Without a change in contribution policy, the funding target identified by Chapter 356 will not be met and the Fund will be depleted.

This plan is currently funded on a pay-as-you-go basis by annual appropriations from the state's General Fund. The current contribution levels (member contributions and annual appropriations) are not sufficient to cover annual benefit payments. For the fiscal year ending June 30, 2012, total contributions were \$4.1 million and total benefit payments were \$7.9 million. The expected benefit payments for the next 10 years, based on current data, methods, and assumptions, are:

	Expected Annual
Fiscal Year Ending	Benefit Payments
2013	\$ 8,303,000
2014	8,702,000
2015	9,073,000
2016	9,245,000
2017	9,294,000
2018	9,250,000
2019	9,208,000
2020	9,235,000
2021	9,233,000
2022	9,150,000

Participant reconciliation and statistics are detailed in the *Membership Data* section. The *Actuarial Basis* section includes a summary of plan provisions and actuarial methods and assumptions used for the calculations in this report. The *Plan Accounting* section details the required accounting information for the Plan under GASB No. 25 (as amended by GASB No. 50).

A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in plan provisions, actuarial assumptions or valuation methods and procedures between the two valuations are described after the summary.

	Actuarial Valuation as of						
	Ju	ly 1, 2012	Jul	July 1, 2011		1, 2011	
Assumptions*			Al	lternate	Pres	scribed	
- Pre-retirement discount rate		0.0%		0.0%		8.5%	
- Post-retirement discount rate		0.0%		0.0%		6.5%	
- Post-retirement annual benefit increase		2.0%		2.0%	Imp	licitly valued	
Contributions (dollars in thousands)							
Statutory - Chapter 3A	\$	123	\$	148	\$	148	
Required - Chapter 356		18,331		21,736		8,420	
Sufficiency / (Deficiency)		(18,208)		(21,588)		(8,272)	
Funding Ratios (dollars in thousands)							
Accrued Liability Funding Ratio							
- Current assets (AVA)	\$	15,523	\$	19,140	\$	19,140	
- Actuarial accrued liability		247,657		216,559		85,034	
- Funding ratio		6.27%		8.84%		22.51%	
Projected Benefit Funding Ratio							
- Current and expected future assets	\$	25,324		N/A	\$	19,847	
- Current and expected future benefit obligations		257,458		N/A		85,741	
- Projected benefit funding ratio		9.84%		N/A		23.15%	
Participant Data							
Active members							
- Number		34		38			
- Projected annual earnings (000s)		1,368		1,646			
- Average projected annual earnings		40,235		43,303			
- Average age		64.3		63.1			
- Average service		23.5		22.8			
Service retirements		287		288			
Survivors		80		80			
Disability retirements		0		0			
Deferred retirements		74		78			
Terminated other non-vested		1		1			
Total		476		485			

^{*} The alternate assumptions used by the prior actuary for 2011 were adopted by the LCPR or incorporated into Minnesota Statutes effective with the 2012 valuation. Further information regarding assumption changes are described on page 3.

The 2011 valuation was prepared by Mercer. As part of the transition of actuarial work from Mercer to GRS, we replicated the 2011 valuation including a change from beginning of year decrement timing to mid-year decrement timing. The results of this replication are as follows:

Valuation Results (000s)	
As of July 1, 2011	

		As of July 1, 2011	
	Mercer	GRS	Ratio
Present Value of Projected Benefits	\$85,741	\$85,584	99.8%
Actuarial Accrued Liability	85,034	84,756	99.7%
Required Contributions	8,420	8,241	97.9%

Differences in valuation results due to differences in actuarial software are not unexpected. The replication results indicate a high degree of consistency.

Effects of Changes

The following changes in actuarial assumptions were recognized as of July 1, 2012. Note that many of the stated changes do not apply because all members are inactive and entitled to immediate benefits.

- The investment return assumption was changed from 8.5% pre-retirement and 6.5% post-retirement (the difference implicitly values a 2% post-retirement benefit increase) to 0% for pre- and post-retirement, with post-retirement benefit increases of 2% accounted for explicitly in the projected benefits. The statutory pre-retirement investment return assumption is 0%, and the statutory post-retirement investment return assumption is -2.0% until June 30, 2040 and -2.5% after June 30, 2040. In order to comply with GASB, MSRS directed GRS to use a post-retirement investment return assumption of 0% instead of the negative statutory post-retirement investment return assumption. Because the 2% post-retirement benefit increases are accounted for explicitly in the benefit payments instead of through the use of a lower post-retirement interest assumption, the results are approximately equivalent to those that would be obtained by using a post-retirement investment return assumption of -2.0% for all years.
- Healthy pre-retirement mortality was changed from 1983 Group Annuity Mortality set back four years for males and set back two years for females to RP-2000 employee generational mortality, white collar adjustment, set forward three years for males and set back one year for females.
- Healthy post-retirement mortality was changed from 1983 Group Annuity Mortality to RP-2000 annuitant generational mortality, white collar adjustment.
- All retired and deferred members were assumed to have a spouse eligible for the automatic survivor benefit. Previously, only members reported with a spouse benefit were assumed to be eligible for the automatic survivor benefit.
- The amortization method was changed from level percent of payroll to level dollar amortization.
- Retirement rates were adjusted to more closely reflect actual experience.
- As per MN Statutes 356.215 subdivision 11(c), a new amortization period is determined by amortizing the unfunded liability before the assumption changes over the original amortization period using original assumptions, amortizing the additional unfunded liability over 30 years using current assumptions, and then determining the equivalent amortization period in whole years. This resulted in a new amortization period of 14 years (previously nine years).

Effects of Changes (Concluded)

The combined impact of the above changes was to increase the accrued liability by \$160 million and increase the required contribution by \$6.3 million, as follows:

	(000s)							
	Amo Per Ass	efore rtization iod and umption nanges	Ass	eflecting sumption hanges	Reflecting Assumption and Amortization Period Changes			
Normal Cost	\$	247	\$	1,720	\$	1,720		
Amortization of UAAL*		11,750		25,793		16,581		
Expenses		30		30		30		
Total Required Contribution		12,027		27,543		18,331		
Accrued Liability Funding Ratio		17.8%		6.3%		6.3%		
Projected Benefit Funding Ratio		18.4%		9.8%		9.8%		
Unfunded Actuarial Accrued Liability Unfunded Actuarial Accrued Liability	\$	71,898	\$	232,134	\$	232,134		

^{*} Unfunded Actuarial Accrued Liability

Refer to the Actuarial Basis section of this report for a complete description of these changes.

Valuation of Future Post-Retirement Benefit Increases

A very important assumption affecting the valuation results is the expectation of future post-retirement benefit increases, which, by statute, depends on the accrued liability funding ratio of the State Employees Retirement Fund instead of this plan which has a 6% funding ratio. If the State Employees Retirement Fund reaches a funding ratio of 90% (on a market value of assets basis) in the future, post-retirement increases in the Legislators Retirement Fund will revert to the 2.5% level. The State Employees Retirement Fund's accrued liability funding ratio (on a market value of assets basis and assuming 2.0% post-retirement benefit increases in all future years) is currently 82.1%.

The liabilities in this report are based on the assumption that the post-retirement benefit increase will remain at the reduced level of 2.0% indefinitely. If we assumed future post-retirement benefit increases of 2.5% instead of 2.0%, the actuarial accrued liability would increase by \$17.1 million.

Supplemental Information

The remainder of the report includes information supporting the results presented in the previous sections.

- Plan assets presents information about the plan's assets as reported by the Minnesota State Retirement System. The assets represent the portion of total fund liabilities that has been funded.
- **Membership data** presents and describes the membership data used in the valuation.
- Development of costs shows the liabilities for plan benefits and the derivation of the contribution amount.
- Actuarial basis describes the plan provisions, as well as the methods and assumptions used to value the plan. The valuation is based on the premise that the plan is ongoing.
- Plan accounting under GASB No. 25 (as amended by GASB No. 50) shows the disclosures required by GASB Statement No. 25 as amended by GASB Statement No. 50.
- Glossary defines the terms used in this report.

Plan Assets

Statement of Plan Net Assets as of June 30, 2012 (Dollars in Thousands)

Assets Held in Trust	Market Value			
Cash, equivalents, short term securities	\$	1,424		
Fixed income		3,207		
Equity		10,903		
Other*		1,307		
Total cash, investments, and other assets	\$	16,841		
Amounts Receivable		57		
Total Assets	\$	16,898		
Amounts Payable*		(1,375)		
Net Assets Held in Trust for Pension Benefits	\$	15,523		

^{*} Includes \$1,307 in Securities Lending Collateral.

Plan Assets

Reconciliation of Plan Assets (Dollars in Thousands)

The following exhibit shows the revenue, expenses and resulting assets of the Fund as reported by the Minnesota State Retirement System for the Plan's Fiscal Year July 1, 2011 to June 30, 2012.

Ch	ange in Assets	Mark	et Value
1.	Fund balance at market value at July 1, 2011	\$	19,140
2.	Contributions		
	a. Member		124
	b. Employer		0
	c. Other sources (annual appropriations from state's General Fund)		3,935
	d. Total contributions	\$	4,059
3.	Investment income		
	a. Investment income/(loss)		273
	b. Investment expenses		(20)
	c. Net investment income/(loss)		253
4.	Other		0
5.	Total income: $(2.d.) + (3.c.) + (4.)$	\$	4,312
6.	Benefits paid		
	a. Annuity benefits		(7,721)
	b. Refunds		(172)
	c. Total benefits paid		(7,893)
7.	Expenses		
	a. Other		0
	b. Administrative		(36)
	c. Total expenses		(36)
8.	Total disbursements: $(6.c.) + (7.c.)$		(7,929)
9.	Fund balance at market value at July 1, 2012: $(1.) + (5.) + (8.)$	\$	15,523

Plan Assets

Actuarial Asset Value

The Actuarial Value of Assets (AVA) is equal to the Market Value of Assets (consistent with valuations since July 1, 2000).

Distribution of Active Members

_				Years of S	Service as	of June 30	0, 2012			
Age	<3*	3 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35+	Total
< 25										
Avg. Earnings										
25 - 29										
Avg. Earnings										
30 - 34										
Avg. Earnings										
35 - 39										
Avg. Earnings										
40 - 44										
Avg. Earnings										
Tivg. Larinings										
45 - 49					1					1
Avg. Earnings					40,429					40,429
50 - 54				1	1					2
Avg. Earnings				36,487	37,213					36,850
55 - 59					3	2	1			6
Avg. Earnings					40,838	38,821	38,121			39,713
88-					,	,	,			,-
60 - 64				1	3	1	4			9
Avg. Earnings				40,085	37,831	37,147	38,609			38,351
65 60					2			2	1	
65 - 69 Avg. Earnings					3 37,213			2 38,942	1 37,474	6 37,833
Avg. Earilligs					37,213			30,942	31,414	31,033
70+					2	1	3		4	10
Avg. Earnings					37,213	37,213	39,271		37,283	37,859
				_		_	-		_	
Total				20 206	13	4	8	28 042	5	34
Avg. Earnings				38,286	38,440	38,000	38,796	38,942	37,321	38,328

^{*} This exhibit does not reflect service earned in other MSRS or Combined Service Annuity benefits. It should not be relied upon as an indicator of non-vested status.

In each cell, the top number is the count of active participants for the age/service combination and the bottom number is average valuation earnings for the fiscal year ending on the valuation date.

Distribution of Service Retirements

_	Years Retired as of June 30, 2012										
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total			
< 50											
Avg. Benefit											
50 - 54											
Avg. Benefit											
55 - 59		2						2			
Avg. Benefit		10,746						10,746			
_											
60 - 64	4	12	6					22			
Avg. Benefit	21,730	26,903	16,510					23,128			
65 - 69	3	25	14	10				52			
Avg. Benefit	16,413	19,331	18,747	11,814				17,560			
Avg. Benefit	10,413	17,551	10,747	11,014				17,500			
70 - 74		9	28	26				63			
Avg. Benefit		22,869	16,032	19,114				18,281			
75 - 79		2	9	16	24			51			
Avg. Benefit		22,113	22,810	23,885	26,852			25,022			
80 - 84		3	7	7	26	18		61			
Avg. Benefit		17,982	27,131	25,825	27,109	23,532		25,460			
8		- 1 , 5 = -	_,,		,,	,		,			
85 - 89		1	1	1	7	3	13	26			
Avg. Benefit		27,133	31,629	16,045	25,230	13,173	26,088	24,234			
90+							10	10			
Avg. Benefit							33,167	33,167			
Avg. Denem							33,107	33,107			
Total	7	54	65	60	57	21	23	287			
Avg. Benefit	19,451	21,458	19,034	19,902	26,770	22,052	29,166	22,251			

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount.

Distribution of Survivors

_			Years Sin	ce Death	as of June	30, 2012		
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total
<45 Avg. Benefit								
45 - 49 Avg. Benefit								
50 - 54 Avg. Benefit	1 6,177							1 6,177
55 - 59 Avg. Benefit		2 12,648						2 12,648
60 - 64 Avg. Benefit				1 6,796				1 6,796
65 - 69 Avg. Benefit	1 15,690	2 21,676	2 23,818	2 23,351				7 21,911
70 - 74 Avg. Benefit	1 15,080	3 11,150	1 5,719	2 18,617	2 20,026	1 9,456	2 36,505	12 17,833
75 - 79 Avg. Benefit		5 26,974	5 13,378	2 39,114		1 13,219		13 22,554
80 - 84 Avg. Benefit	2 12,768	4 14,434	1 20,920	2 5,005	6 15,225	1 20,697	1 7,006	17 13,721
	2 7,663	5 17,400	3 10,333		3 29,126	1 10,532	_	17 15,538
90+ Avg. Benefit	1 30,596	1 40,347	1 16,628	1 2,011	1 9,036	2 14,649	3 8,759	10 15,419
Total Avg. Benefit	8 13,551	22 19,184	13 14,522	10 18,098	12 18,985	6 13,867	9 15,467	80 16,881

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount.

Reconciliation of Members

		Term	inate d]	Recipients		
		Deferred	Other Non-	Service	Disability		
	Actives	Retirement	Vested	Retirement	Retirement	Survivor	Total
Members on 7/1/2011	38	78	1	288	0	80	485
Additions	0	0	0	0	0	0	0
Return to active	0	0	0	0	0	0	0
Terminated non-vested	0	0	0	0	0	0	0
Service retirements	0	(7)	0	7	0	0	0
Terminated deferred	(3)	3	0	0	0	0	0
Terminated refund/transfer	0	0	0	0	0	0	0
Deaths	(1)	0	0	(8)	0	(8)	(17)
New beneficiary	0	0	0	0	0	8	8
Disabled	0	0	0	0	0	0	0
Data correction	0	0	0	0	0	0	0
Net change	(4)	(4)	0	(1)	0	0	(9)
Members on 6/30/2012	34	74	1	287	0	80	476

	Deferred	Other Non-	•
Terminated Member Statistics	Retirement	Vested	Total
Number	74	1	75
Average age	57.8	63.3	57.8
Average service	11.5	4.0	11.4
Average annual benefit, with augmentation to Norma	1		
Retirement Date and 30% CSA load	\$30,637	N/A	\$30,637
Average refund value, with 30% CSA load	\$75,438	\$37,238	\$74,929

Actuarial Valuation Balance Sheet (Dollars in Thousands)

The actuarial balance sheet is based on the principle that the long-term projected benefit obligations of the plan should be ideally equal to the long-term resources available to fund those obligations. The resources available to meet projected obligations for current members consist of current fund assets plus the present value of anticipated future contributions intended to fund benefits for current members. In the exhibit below, B.2 is the estimated present value of contributions to fund the normal cost rate for current members until their respective termination dates. Item B.1 is the present value of the total 9.00% statutory contribution net of normal cost and anticipated plan expenses during the period from the valuation date to the statutory unfunded amortization date.

The contributions made in excess of amounts required for current benefit payments are accumulated as a reserve to help meet benefit payments in later years. It is this reserve system which permits the establishment of a level rate of contribution each year.

					June 30, 2012	
A. Actuarial Value of Assets					\$	15,523
B. Expected Future Assets						
Present value of expected future statutory supplemental contribution	ns					0
2. Present value of future normal cost contributions						9,801
3. Total expected future assets: $(1.) + (2.)$					\$	9,801
C. Total Current and Expected Future Assets					\$	25,324
D. Current Benefit Obligations*						
1. Benefit recipients	Non-Ve	ested	V	ested	Tot	tal
a. Service retirements	\$	0	\$	127,499	\$	127,499
b. Disability retirements		0		0		0
c. Survivors		0		19,083		19,083
2. Deferred retirements with augmentation		0		78,940		78,940
3. Former members without vested rights**		37		0		37
4. Active members		0		25,333		25,333
5. Total Current Benefit Obligations	\$	37	\$	250,855	\$	250,892
E. Expected Future Benefit Obligations					\$	6,566
F. Total Current and Expected Future Benefit Obligations***					\$	257,458
G. Unfunded Current Benefit Obligations: $(D.5.)$ - $(A.)$					\$	235,369
H. Unfunded Current and Future Benefit Obligations: $(F.)$ - $(C.)$					\$	232,134
I. Accrued Benefit Funding Ratio: (A.)/(D.5.)						6.19%
J. Projected Benefit Funding Ratio: $(C.)/(F.)$						9.84%

^{*} Present value of credited projected benefits (projected compensation, current service)

^{**} Former members who have not satisfied vesting requirements and have not collected a refund of member contributions as of the valuation date

^{***} Present value of projected benefits (projected compensation, projected service)

Determination of Unfunded Actuarial Accrued Liability and Supplemental Contribution Rate (*Dollars in Thousands*)

	Actuarial Present Value of Projected Benefits	Actuarial Present Value of Future Normal Costs	Actuarial Accrued Liability
A. Determination of Actuarial Accrued Liability (AAL)			
1. Active members			
a. Retirement annuities	\$ 31,099	\$ 9,214	\$ 21,885
b. Disability benefits	0	0	0
c. Survivor's benefits	800	330	470
d. Deferred retirements	0	224	(224)
e. Refunds*	0	33	(33)
f. Total	\$ 31,899	\$ 9,801	\$ 22,098
2. Deferred retirements with future augmentation	78,940	0	78,940
3. Former members without vested rights*	37	0	37
4. Benefit recipients	146,582	0	146,582
5. Total	\$ 257,458	\$ 9,801	\$ 247,657
B. Determination of Unfunded Actuarial Accrued Liability (UAAL)			
Actuarial accrued liability			\$ 247,657
2. Current assets (AVA)			15,523
3. Unfunded actuarial accrued liability			\$ 232,134
C. Determination of Supplemental Contribution Rate			
1. Current unfunded actuarial accrued liability to be			
amortized by June 30, 2026			\$ 232,134
2. Supplemental contribution amount			\$ 16,581 **

^{*} Former members with either six full years of service or service during all or part of four regular legislative sessions that have not collected a refund of member contributions as of the valuation date.

^{**} The amortization factor as of July 1, 2012 is 14.0000.

Changes in Unfunded Actuarial Accrued Liability (UAAL) (Dollars in Thousands)

	Year Ending June 30, 2012
A. Unfunded actuarial accrued liability at beginning of year	\$ 65,894
B. Changes due to interest requirements and current rate of funding	
Normal cost and expenses	329
2. Contributions	(4,059)
3. Interest on A., B.1. and B.2.	5,442
4. Total (B.1. + B.2. + B.3.)	1,712
C. Expected unfunded actuarial accrued liability at end of year (A. + B.4.)	67,606
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected	
1. Age and Service Retirements	0
2. Disability Retirements	0
3. Death-in-Service Benefits	6
4. Withdrawals	(14)
5. Salary increases	(623)
6. Investment income	1,247
7. Mortality of annuitants	714
8. Other items*	3,260
9. Total	4,590
E. Unfunded actuarial accrued liability at end of year before plan amendments and	
changes in actuarial assumptions (C. + D.9.)	72,196
F. Change in unfunded actuarial accrued liability due to changes in plan provisions	0
G. Change in unfunded actuarial accrued liability due to changes in actuarial assumptions	160,236
H. Change in unfunded actuarial accrued liability due to changes in decrement timing and miscellaneous methodology	(298)

I. Unfunded actuarial accrued liability at end of year (E. + F. + G. + H.) \$ 232

^{*} Other items include actuarial losses due to a number of significant revisions in deferred vested member benefits provided by MSRS. In the prior valuation, many of these benefits were not available and were estimated. Actual benefits provided by MSRS for this valuation were larger for many members than the estimated benefits used in the 2011 valuation.

Determination of Contribution Sufficiency/(Deficiency)*

The required contribution is defined in statutes as the sum of normal cost, a supplemental contribution to amortize the UAAL, and an allowance for expenses.

	Percent of Payroll	Dollar Amount (000s)	
A. Statutory contributions - Chapter 352			
1. Employee contributions	9.00%	\$	123
2. Employer contributions	0.00%		0
3. Total	9.00%	\$	123
B. Required contributions - Chapter 356			
1. Normal cost	11.50.504	Φ.	1 (00
a. Retirement benefits	116.96%	\$	1,600
b. Disability benefits	0.00%		0
c. Survivors	4.56%		62
d. Deferred retirement benefits	3.56%		49
e. Refunds	0.65%		9
f. Total	125.73%	\$	1,720
2. Supplemental contribution amortization of Unfunded			
Actuarial Accrued Liability by June 30, 2026	1,212.06%	\$	16,581
3. Allowance for expenses	2.21%	\$	30
4. Total	1,340.00% *	\$	18,331
C. Contribution Sufficiency/(Deficiency) (A.3 B.4.)	(1,331.00%)	\$	(18,208)

^{*} Plan is funded by annual appropriations from the state's General Fund. Estimated benefit payments of \$8,303,000 are expected to be paid during the upcoming fiscal year.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$1,368.

Actuarial Methods

All actuarial methods are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement, or the MSRS Board of Directors. Different methodologies may also be reasonable and results based on other methodologies would be different.

Actuarial Cost Method

An actuarial cost method is a set of techniques used by the actuary to develop contribution levels under a retirement plan. The actuarial cost method used in this valuation for all purposes is the Entry Age Actuarial Cost Method. Under this method, a normal cost is developed by amortizing the actuarial value of benefits expected to be received by each active participant (as a level percentage of pay) over the total working lifetime of that participant, from hire to termination. Age as of the valuation date was calculated based on the dates of birth provided by the Fund. Entry age for valuation purposes was calculated as the age on the valuation date minus the provided years of service on the valuation date.

To the extent that current assets and future normal costs do not support participants' expected future benefits, an unfunded actuarial accrued liability ("UAAL") develops. The UAAL is amortized over the statutory amortization period using level dollar. The total contribution developed under this method is the sum of normal cost, expenses, and the payment toward the UAAL.

Decrement Timing

All decrements are assumed to occur mid-year.

Asset Valuation Method

Market Value (consistent with valuations since July 1, 2000).

Payment on the Unfunded Actuarial Accrued Liability

The unfunded liability is amortized as a level dollar each year to the statutory amortization date of June 30, 2026. If the Unfunded Actuarial Accrued Liability is negative, the surplus amount shall be amortized over 30 years as a level dollar amount. If the unfunded liability increases due to changes in benefits, assumptions, or methods, the statutory amortization date will be re-determined.

Funding Objective

This plan is primarily funded on a pay-as-you-go basis, offset by member contributions and annual appropriations from the state's General Fund.

Changes in Methods since Prior Valuation

Decrement timing was changed from beginning of year to mid-year, and the amortization method was changed from level percentage of payroll to level dollar amortization.

Summary of Actuarial Assumptions

The following assumptions were used in valuing the liabilities and benefits under the plan. All actuarial assumptions are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement (LCPR), or the MSRS Board of Directors. These parties are responsible for selecting the assumptions used for this valuation. The assumptions prescribed are based on the last assumption review, dated January 2012, prepared by a former actuary, and are consistent with the *Alternate Assumptions* used in the 2011 valuation.

The Allowance for Combined Service Annuity was also based on a recommendation by a former actuary. We are unable to judge the reasonableness of this assumption without performing a substantial amount of additional work beyond the scope of the assignment.

Investment return	0.00% per annum post-retirement 0.00% per annum pre-retirement
	In order to comply with GASB, MSRS directed GRS to use a post-retirement investment return assumption of 0.0% instead of the statutory post-retirement investment return assumption of -2.0% until June 30, 2040 and -2.5% after June 30, 2040.
Benefit increases after retirement	Payment of 2.00% annual benefit increases after retirement are accounted for explicitly in the projected benefits.
Salary increases	5.00% annually.
Mortality rates	
Healthy Pre-retirement	RP-2000 employee generational mortality table, white collar adjustment, set
	forward three years for males and set back one year for females.
Healthy Post-retirement	RP-2000 annuitant generational mortality table, white collar adjustment.
	The RP-2000 employee mortality table as published by the Society of Actuaries (SOA) contains mortality rates for ages 15 to 70 and the annuitant mortality table contains mortality rates for ages 50 to 95. We have applied the annuitant mortality table for active members beyond age 70 until the assumed retirement age and the employee mortality table for annuitants younger than age 50.
Disabled	N/A
Retirement	Members retiring from active status are assumed to retire according to the age related rates shown in the rate table. Members who have attained the highest assumed retirement age are assumed to retire in one year.
Withdrawal	Ultimate rates based on actual experience. Rates are shown in rate table.

Summary of Actuarial Assumptions (Continued)

Disability	None.
Allowance for combined	Liabilities for former members are increased by 30.00% to account for the effect
service annuity	of some participants having eligibility for a Combined Service Annuity.
Administrative expenses	Prior year administrative expenses expressed as percentage of prior year projected payroll.
Refund of contributions	All employees withdrawing after becoming eligible for a deferred benefit take the larger of their contributions accumulated with interest or the value of their deferred benefit. Account balances for deferred members accumulate interest until normal retirement date and are discounted back to the valuation date.
Commencement of deferred benefits	Members receiving deferred annuities (including current terminated deferred members) are assumed to begin receiving benefits at age 62.
Percentage married	85% of active members are assumed to be married.
Age of spouse	Females are assumed to be three years younger than their male spouses.
Eligible children	Each member may have two dependent children depending on member's age. Assumed first born child born at member's age 28 and second born child at member's age 31.
Form of payment	Active married members are assumed to elect 50% joint and survivor annuity. Active single members and deferred members are assumed to elect a life annuity. Unless reported with a joint & survivor option, retired members are assumed to have a spouse that is eligible for the automatic survivor benefit.
Eligibility testing	Eligibility for benefits is determined based upon the age nearest birthday and service on the date the decrement is assumed to occur.
Decrement operation	Withdrawal decrements do not operate during retirement eligibility.
Service credit accruals	It is assumed that members accrue one year of service credit per year.

Summary of Actuarial Assumptions (Continued)

Unknown data for certain members

To prepare this report, GRS has used and relied on participant data supplied by the Fund. Although GRS has reviewed the data in accordance with Actuarial Standards of Practice No. 23, GRS has not verified or audited any of the data or information provided.

There are no members reported with missing gender or birth dates. In cases where submitted data was missing or incomplete, the following assumptions were applied:

Data for active members:

There were no members reported with missing salary or service.

Data for terminated members:

There were 11 members reported without a benefit. If available, we calculated benefits for these members using the reported Average Salary and credited service. If Average Salary was also not reported (10 members), we assumed a value of \$30,000. If termination date was not reported (2 members), we assumed the member terminated at age 40 (or current age if older than 40). There were no members reported without credited service.

Data for members receiving benefits:

There were no members reported without a benefit.

Unless reported with a joint & survivor option, retired members were assumed to have a spouse that is eligible for the automatic survivor benefit. Of the 287 retired members, 107 were reported with a joint & survivor option. The remaining 180 members were reported as a life annuity but were valued as a 50% joint & survivor annuity per MSRS' direction.

Changes in actuarial assumptions

The investment return assumption was changed from 8.5% pre-retirement and 6.5% post-retirement to 0% for pre- and post-retirement. Post-retirement benefit increases are now accounted for explicitly in the projected benefits.

Healthy pre-retirement mortality was changed from 1983 Group Annuity Mortality set back four years for males and set back two years for females to RP-2000 employee generational mortality, white collar adjustment, set forward three years for males and set back one year for females.

Healthy post-retirement mortality was changed from 1983 Group Annuity Mortality to RP-2000 annuitant generational mortality, white collar adjustment.

Retirement rates were adjusted to more closely reflect actual experience. Retirement rates were changed from age 62 or if over 62, one year from the valuation date to age related tables.

All retired members were assumed to have a spouse eligible for the survivor benefit unless reported with a joint & survivor option. Previously, only members reported with a spouse benefit were assumed to be eligible for the automatic survivor benefit.

Summary of Actuarial Assumptions (Concluded)

	Rate (%)				
	Healthy				
	Pre-Retirement Mortality*				
Age	Male	Female			
20	0.04%	0.02%			
25	0.04	0.02			
30	0.05	0.02			
35	0.08	0.04			
40	0.11	0.06			
45	0.17	0.09			
50	0.24	0.15			
55	0.35	0.22			
60	0.56	0.34			
65	0.85	0.54			
70	2.67	0.82			

^{*} These rates were adjusted for mortality improvements using projection scale AA.

			Withdrawal	
Age	Percent Retiring	Service	House	Senate
60	0.00%	1	0.0%	0.0%
61	0.00	2	30.0	0.0
62	40.00	3	0.0	0.0
63	30.00	4	20.0	25.0
64	30.00	5	0.0	0.0
65	40.00	6	10.0	0.0
66	30.00	7	0.0	0.0
67	25.00	8	5.0	10.0
68	25.00	9+	0.0	0.0
69	25.00			
70	30.00			
71+	100.00			

Summary of Plan Provisions

Following is a summary of the major plan provisions used in the valuation of this report. MSRS is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30.
Eligibility	Members of the State Legislature first elected to office before July 1, 1997 and who elect to retain coverage under this plan (i.e., do not elect Social Security coverage).
Contributions	
Member	9.00% of salary which must be paid to the state's General Fund.
Employer	Plan is funded by annual appropriations from the state's General Fund. Employee contributions are "picked up" according to the provisions of Internal Revenue Code 414(h).
Allowable service	Service while in an eligible position.
Salary	Compensation received for service as a member of the legislature. Salary includes the monthly compensation paid to a legislator and the per diem payments paid during a regular or special session. Salary does not include additional compensation attributable to a leadership position.
Average salary	Average of the five highest successive years of salary.

Retirement

Normal retirement benefit

of four include ice.

Summary of Plan Provisions (Continued)

Retirement (Continued)						
Early retirement benefit Age/service requirements	Age 55 and either six full years of Service or Service during all or part of four regular legislative sessions.					
Form of Payment	Normal retirement benefit based on service and Average Salary at retirement date and actuarially reduced for each month the member is under age 62 assuming augmentation to age 62 at 3.00% per year.					
Form of payment	Paid as a 50% joint and survivor annuity to member, spouse and dependent children. Annuitants may elect 100% joint and survivor bounce back annuity, life annuity, or a term certain and life annuity on an actuarially equivalent basis.					
Benefit increases Benefit recipients receive future annual 2.0% benefit increases. W funding ratio of the State Employees Retirement Fund reaches 90% Market Value of Assets basis), the benefit increase will revert to 2.5%. A recipient who has been receiving a benefit for at least 12 full months as 30 will receive a full increase. Members receiving benefits for at least 12 full month but less than 12 full months as of June 30 will receive a pro rata in						
Disability	No additional benefits provided beyond standard plan. Treated as retirement or termination, depending on age and service at termination.					
Death	termination, depending on age and service at termination					
Surviving spouse benefit Age/Service requirement	Death while active, or after termination if service requirements for a normal retirement benefit is met but payments have not begun.					
Amount	Survivor payments of 50% of the retirement benefit of the member assuming the member had attained normal retirement age and had a minimum of eight years of service. Benefit is paid for life. A former member's benefit is augmented as a Deferred Annuity to date of death before determining the portion payable to the spouse. If the legislator was at least age 55 at death, the surviving spouse may elect an optional joint and survivor annuity. If a deferred benefit was not eligible to be in pay status before July 1, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.					
Benefit increases	Same as for retirement.					

Summary of Plan Provisions (Continued)

Death (Continued	h (Continued	.)
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Surviving dependent children's benefit

Age/Service requirement Same as spouse's benefit.

Amount Benefit for first child is 25.00% of the retirement benefit (computed as for

surviving spouse) with 12.50% for each additional child. Maximum payable (including spouse) is 100.00% of the retirement benefit. Benefits cease when a

child marries or attains age 18 (22 if a full-time student).

Benefit increases Same as retirement.

Refund of contributions

Age/Service requirement Member dies before receiving any retirement benefits and survivor benefits are

not payable.

Amount Member's contributions with 6.00% annual interest compounded daily until June

30, 2011, 4.00% thereafter.

Termination

Refund of contributions

Age/Service requirement Termination of service.

Amount Member's contributions with 6.00% annual interest compounded daily until June

30, 2011, 4.00% thereafter. If a member is vested, a deferred annuity may be

elected in lieu of a refund.

Deferred benefit

Age/service requirement Same service requirements as for normal retirement.

Amount Benefit computed under law in effect at termination and increased by the following

annual augmentation percentage:

(a.) 0.00% before July 1, 1973;

(b.) 5.00% from July 1, 1973 to January 1, 1981;

(c.) 3.00% until the earlier of January 1 of the year following attainment of age 55

and January 1, 2012;

(d.) 5.00% until the earlier of January 1, 2012 and when the annuity begins; and

(e.) 2.00% from January 1, 2012 forward.

Amount is payable at normal or early retirement.

For members who terminated prior to July 1, 1997 but were not eligible to commence their pensions before July 1, 1997, the benefit shall be increased to reflect the actuarial equivalent change in post-retirement interest rate from 5.00%

to 6.00%.

Adjustments for benefits not in pay status

Benefits are adjusted on an actuarial equivalent basis to reflect the 1997 change in

post-retirement interest rate assumption from 5.0% to 6.0%.

Summary of Plan Provisions (Concluded)

Optional form conversion factors	Actuarially equivalent factors based on the 1983 Group Annuity Mortality, blended 75% male and 25% female, and 6% interest.							
Combined service annuity	Members are eligible for combined service benefits if they:							
	(a.) Have sufficient allowable service in total that equals or exceeds the applicable service credit vesting requirement of the retirement plan with the longest applicable service credit vesting requirement; and							
	(b.) Have at least six months of allowable service credit in each plan worked under; and							
	(c.) Are not in receipt of a benefit from another plan, or have applied for benefits with an effective date within one year.							
	Members who meet the above requirements must have their benefit based on the following:							
	(a.) Allowable service in all covered plans are combined in order to determine eligibility for early retirement.							
	(b.) Average salary is based on the high five consecutive years during their entire service in all covered plans.							
Changes in plan provisions	None.							

Plan Accounting Under GASB No. 25 (as amended by GASB No. 50)

Provided below is information required under GASB Statement No. 25 as amended by GASB Statement No. 50 - Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans as amended by GASB Statement No. 50.

Schedule of Funding Progress¹ (Dollars in Thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Accrued AAL Funded bility (AAL) (UAAL) Ratio		Actual Covered Payroll (Previous FY) (c)	UAAL as a Percentage of Covered Payroll (b)-(a) (c)	
07/01/1991	\$ 14,694	\$ 30,403	\$ 15,709	48.33%	\$ 7,078	221.94%	
07/01/1992	15,160	33,224	18,064	45.63	6,556	275.53	
07/01/1993	17,169	36,801	19,632	46.65	7,322	268.12	
07/01/1994	18,738	45,448	26,710	41.23	6,589	405.37	
07/01/1995	21,213	50,255	29,042	42.21	7,056	411.59	
07/01/1996	22,532	54,225	31,693	41.55	6,267	505.71	
07/01/1997	25,678	60,055	34,377	42.76	7,767	442.60	
07/01/1998	31,212	62,928	31,716	49.60	6,802	466.27	
07/01/1999	33,474	66,418	32,944	50.40	7,490	439.84	
07/01/2000	37,265	69,364	32,099	53.72	5,808	552.67	
07/01/2001	42,608	75,072	32,464	56.76	5,858	554.18	
07/01/2002	45,501	78,070	32,569	58.28	5,089	639.99	
07/01/2003 ²	-	-	-	-	-	-	
07/01/2004	46,155	83,197	37,042	55.48	3,815	970.89	
07/01/2005	45,523	81,836	36,314	55.63	3,014	1,204.84	
07/01/2006	48,504	81,361	32,858	59.62	2,894	1,135.45	
07/01/2007	44,869	86,449	41,580	51.90	2,380	1,747.42	
07/01/2008	39,209	86,131	46,922	45.52	1,993	2,354.34	
07/01/2009	28,663	90,431	61,768	31.70	1,963	3,146.61	
07/01/2010	26,821	86,236	59,415	31.10	1,877	3,165.42	
07/01/2011 ³	19,140	216,559	197,419	8.84	1,774	11,128.47	
07/01/2012	15,523	247,657	232,134	6.27	1,378 4	16,845.72	

¹ Information prior to 2012 provided by prior actuaries. See prior reports for additional detail. ² An actuarial valuation was not completed as of July 1, 2003.

Based on the alternate assumptions, including, an investment return assumption of 0%.

⁴ Assumed equal to actual member contributions divided by 9%.

Plan Accounting Under GASB No. 25 (as amended by GASB No. 50)

Schedule of Contributions from the Employer and Other Contributing Entities¹ (Dollars in Thousands)

The GASB Statement No. 25 required and actual contributions are as follows:

	Actuarially						A	ctual			
Plan Year	Required	Actual	Actual Member		Annua	l Required	En	ployer	Percentage		
Ended	Contribution	Covered Payroll	Contributions		Contributions		Con	tributions	Contr	ributions ²	Contributed
June 30	Rate (a)	(b)	(c)		(c)		[(a)x(b)]-(c)=(d)		(e)		(e)/(d)
1991	32.62 %	\$ 7,078	\$	637	\$	1,672	\$	1,889	112.98 %		
1992	27.67	6,556		590		1,224		601	49.10		
1993	30.49	7,322		659		1,573		2,284	145.20		
1994	32.12	6,589		593		1,457		1,618	111.05		
1995	38.34	7,056		635		2,070		2,938	141.93		
1996	41.54	6,267		564		2,039		1,511	74.10		
1997	43.96	7,767		699		2,715		3,176	116.98		
1998	48.03	6,802		612		2,655		5,199	195.82		
1999	47.19	7,490		674		2,861		2,091	73.09		
2000	52.72	5,808		523		2,539		3,192	125.72		
2001	47.26	5,858		527		2,241		5,039	224.85		
2002	60.14	5,089		458		2,603		4,135	158.86		
2003	63.12	-		-		-		-	-		
2004	63.12	3,815		343		2,065		-	-		
2005	104.72	3,014		384		2,773		-	-		
2006	112.64	2,894		264		2,995		-	-		
2007	111.24	2,380		239		2,408		-	-		
2008	171.10	1,993		180		3,230		-	-		
2009	243.21	1,963		248		4,526		-	-		
2010	413.00	1,877		170		7,582		-	-		
2011	432.92	1,774		160		7,520		-	-		
$2012^{\ 3}$	1,320.95	1,378 4		124		18,079		-	-		
2013	1,340.00	N/A		N/A		N/A		-	-		

Information prior to 2012 provided by prior actuary. See prior reports for additional detail.
 Includes contributions from other sources (if applicable).

Based on the alternate assumptions, including, an investment return assumption of 0%.

Assumed equal to actual member contributions divided by 9%.

Glossary of Terms

Accrued Benefit Funding Ratio

The ratio of assets to Current Benefit Obligations.

Accrued Liability Funding Ratio

The ratio of assets to Actuarial Accrued Liability.

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Projected Benefits

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 25, such as the Funded Ratio and the Annual Required Contribution (ARC).

Actuarial Value of Assets

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution (ARC).

Glossary of Terms (Continued)

Amortization Method A method for determining the Amortization Payment. Under the Level

Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. The stream of payments increases at the rate at which total covered payroll

of all active members is assumed to increase.

Amortization Payment That portion of the plan contribution or ARC which is designed to pay

interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period The period used in calculating the Amortization Payment.

Annual Required The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under

GASB No. 25. The ARC consists of the Employer Normal Cost and

Amortization Payment.

Augmentation Annual increases to deferred benefits.

Closed Amortization Period A specific number of years that is reduced by one each year, and declines to

zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the

end of two years, etc.

Current Benefit Obligations The present value of benefits earned to the valuation date, based on

current service and including future salary increases to retirement.

Employer Normal Cost The portion of the Normal Cost to be paid by the employer. This is equal

to the Normal Cost less expected member contributions.

Expected Assets The present value of anticipated future contributions intended to fund

benefits for current members.

Experience Gain/Loss A measure of the difference between actual experience and that expected

based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial

Accrued Liabilities which are larger than projected.

Glossary of Terms (Concluded)

GASB Governmental Accounting Standards Board.

GASB No. 25 and These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or

contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while

Statement No. 25 sets the rules for the systems themselves.

GASB No. 50 The accounting standard governing a state or local governmental

employer's accounting for pensions.

Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the current

plan year.

Projected Benefit Funding

Ratio

The ratio of the sum of Actuarial Value of Assets and Expected Assets to

the Actuarial Present Value of Projected Benefits.

Unfunded Actuarial Accrued

Liability

The difference between the Actuarial Accrued Liability and Actuarial

Value of Assets.

Valuation Date The date as of which the Actuarial Present Value of Future Benefits are

determined. The benefits expected to be paid in the future are discounted to

this date.